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Require file for DCX - Data Compression / Expansion Facility

Version: 'V04-000'

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FACILITY:

DCX -- Data Compression / Expansion facility

ABSTRACT:

The Data Compression / Expansion procedures provide a general method for reducing the storage requirement for a arbitrary data.

ENVIRONMENT:

VAX native, user mode.

AUTHOR: David Thiel

CREATION DATE: July, 1982

MODIFIED BY:

```
Common built-in functions
BUILTIN
    insque,
    remque;
  Define VMS block structures
MACRO
    BBLOCK = $BBLOCK%;
                                  ' use common definition
  Define routine linkages
LINKAGE
    lkg_ctx_check =
        JSB (REGISTER = 0, REGISTER = 1) :
            NOPRESERVE (0, 1) NOTUSED (2, 3, 4, 5, 6, 7, 8, 9, 10, 11),
        CALL ( ; REGISTER = 0, REGISTER = 1),
    lkg_long_move =
    JSB TREGISTER = 0, REGISTER = 1, REGISTER = 2) :
            NOPRESERVE (0, 1, 2) PRESERVE (3, 4, 5, 6) NOTUSED (7, 8, 9, 10, 11),
    lkg_map_check =
        JSB (REGISTER = 0) :
            NOPRESERVE (0, 1) NOTUSED (2, 3, 4, 5, 6, 7, 8, 9, 10, 11);
  Linkage to LIBSANALYZE_SDESC_R2
LINKAGE
    je _analyze_sdesc_r2 =
    JSB (REGISTER = 0; REGISTER = 0, REGISTER = 1, REGISTER = 2);
            NOPRESERVE (0, 1, 2) NOTUSED (3, 4, 5, 6, 7, 8, 9, 10, 11);
EX LAMAL ROUTINE
    lib$analyze_sdesc_r2 :
        jsb_anaTyze_sdesc_r2
        NOVALUE
        ADDRESSING_MODE (GENERAL);
  Usefui macros
MACRO
  Macro to generate a pointer to a counted string
    cstring (string) = UPLIT (%ASCIC string )%,
  Macro to describe a string
    stringdesc (string) = %CHARCOUNT (string), UPLIT (%ASCII string)%,
```

```
Macro to generate a quadword string descriptor
    descriptor (string) = BBLOCK [dsc$c_s_bln] INITIAL (stringdesc (string))%,
 Macro to generate a counted string
    countedstring (string) = VECTOR [%CHARCOUNT (string)+1, BYTE] INITIAL (BYTE (%CHARCOUNT(string), %ASCII string))%,
  Macro to execute a given sequence of commands and return if any error
    perform [] =
        BEGIN
        LOCAL
        status;
status = (XREMAINING);
         IF NOT .status
                                          ! If error detected,
        THEN
            RETURN .status:
                                          ! then return with error
                                          ! Otherwise, status is block value
         .status
        ENDX:
  Macros to ease typing
MACRO
    short = UNSIGNED (6)%,
bytlit = UNSIGNED (8)%,
                                            Short attribute
                                          ! Unsigned byte attribute
    wordlit = UNSIGNED (16)%;
                                          1 Unsigned word attribute
 Equated symbols
LITERAL
    true
                         1.
0:
                                          ! Boolean TRUE
    false
                                          ! Boolean FALSE
```

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